



PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/488,942
				Filing Date	1/21/2000
				First Named Inventor	Sherer
				Art Unit	2448
				Examiner Name	Strange, Aaron N.
Sheet	1	of	7	Attorney Docket Number	P190 1010.5

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	4,250,546	02/10/1981	Boney et al.	
	B	3,789,365	01/29/1974	Jen et al.	
	C	5,319,752	06/07/1994	Petersen et al.	
	D	4,947,366	08/07/1990	Johnson	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	E	EP 0 290 129 A3	11/09/1988	Europe	H04Q	11/04		
	F	EP 0 378 422 A2	01/11/1990	Europe	G06F	13/28		
	G	JP 61-264465	11/22/1986	Japan (Abstract Only)	G06F	13/38		
	H	JP-62-082422	04/15/1987	Japan	G06F	3/06		
	I	JP-61-058037	03/25/1986	Japan (Abstract Only)	G06F	9/00		
	J	JP-04-155534	05/28/1992	Japan (Abstract Only)	G06F	9/46		
	K	JP-52-055343	05/06/1977	Japan (Abstract Only)	G06F	3/00		
	L	JP-60-110060	06/15/1985	Japan (Abstract Only)	G06F	13/00		

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

EXAMINER'S SIGNATURE:

DATE CONSIDERED:

Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
				Application Number	09/488,942	
				Filing Date	1/21/2000	
				First Named Inventor	Sherer	
				Art Unit	2448	
				Examiner Name	Strange, Aaron N.	
Sheet	2	of	7	Attorney Docket Number		P190 1010.5

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	M	JP-59-167754	09/21/1984	Japan (Abstract Only)	G06F	9/46		
	N	JP-01-214939	08/29/1989	Japan (Abstract Only)	G06F	9/46		
	O	JP-04-145560	05/19/1992	Japan	G06F	13/00		
	P	EP 0 288 636	11/02/1988	Europe	G06F	15/16		
	Q	WO 92/21081	11/26/1992	PCT	G06F	1/08		
	R	JP-3-58543	03/13/1991	Japan	HO4L	12/56	X	
	S	63-81553	08/12/1988	Japan	G06F	13/00	X	

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

EXAMINER'S SIGNATURE:

DATE CONSIDERED:

Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/488,942
				Filing Date	1/21/2000
				First Named Inventor	Sherer
				Art Unit	2448
				Examiner Name	Strange, Aaron N.
Sheet	3	of	7	Attorney Docket	P190 1010.5
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	T	The Implementation of Ethernet/IEEE 802.3 In VLSI; Coleman et al.; 8079A Mini-Micro Conference Record (1983) Nov. 8-11, San Francisco, CA, USA; pgs. 1-18			
	U	Universal Network Device Interface Protocol (UNDIP) Hemant Kanakia Computer Systems Laboratory Stanford University; David Cheriton Computer Science Department Stanford University; CH2613-8/88/0000/0301/\$01.00@1888 IEEE; pgs. 301-309			
	V	IBM Technical Disclosure Bulletin Vol. 25, No. 9, February 1983; Early Interrupt for Disk Controller; W.J. Brooks, W.B. Ott, D.C. Pavak and G.E. Webb; 1 page			
	W	The VMP Network Adapter Board (NAB); High Performance Network Communication for Multiprocessors; Hemant Kanakia Computer Systems Laboratory Stanford University; David Cheriton Computer Science Department Stanford University; 1988 ACM 0-89791-279-9 88/008/0175 \$1.50; pages 175-187			
	X	Partial European Search Report dated 31 October 1994 ; European Patent Application No. 93110478.0			
	Y	Interfacing to Ethernet Using VLSI Protocol Chips; R.W. Dobinson, K.G. Konigsfeld & N.D. Szpak; Interfaces in Computing 3 (1985) 173-187; pgs. 173-185			
	Z	European Search Report dated 01 June 1995 ; European Patent Application No. 93110478.0			
	AA	Office Action dated 24 March 1998; European Patent Application No. 93110478.0			
	AB	Office Action dated 08 October 1996; Japanese Patent Application No. 157562/1993			
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
¹Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language Translation is attached.
 This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/488,942
				371 (c) Date	1/21/2000
				First Named Inventor	Sherer
				Art Unit	2448
				Examiner Name	Strange, Aaron N.
Sheet	4	of	7	Attorney Docket	P190 1010.5
	AC	Translation of Pending Claims from Japanese Patent Application No. 157562/1993			
	AD	Letter to Fukami Patent Office dated 06 January 1997; related to Japanese Patent Application No. 157562/1993			
	AE	Final Office Action dated 26 June 1997; Japanese Patent Application No. 157562/1993			
	AF	Translation of Office Action dated 01 September 2008; Japanese Patent Application No. 2005-282538			
	AG	IBM Technical Disclosure Bulletin, February 1983; Vol. 25, NR: 9; PG: 4703; Early Interrupt for Disk Controller; 2 pages			
	AH	Translation of Office Action dated 15 March 2004; Japanese Patent Application No. 6-504767			
	AI	Supplementary European Search Report dated 10 May 1994 ; European Patent Application No. 93918424.8			
	AJ	Office Action dated 12 February 1996; European Patent Application No. 93918424.8			
	AK	Response to 12 February 1996 Office Action dated 25 September 1997; European Patent Application No. 93918424.8			
	AL	PCT International Search Report dated 07 December 1993; PCT Application No. PCT/US93/07060			
	AM	Office Action dated 16 May 2000; Canadian Patent Application No. 2,119,151			
	AN	Response to 16 May 2000 Office Action dated 18 September 2000; Canadian Patent Application No. 2,119,151			
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.
Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:**
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/488,942
				Filing Date	1/21/2000
				First Named Inventor	Sherer
				Art Unit	2448
				Examiner Name	Strange, Aaron N.
Sheet	5	of	7	Attorney Docket	P190 1010.5
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	AO	Translation of Office Action dated 25 December 2001; Japanese Patent Application No. 6-518024			
	AP	Translation of Office Action dated 31 July 2001; Japanese Patent Application No. 6-518024			
	AQ	Supplementary European Search Report dated 17 May 1995 ; European Patent Application No. 93921684.2			
	AR	Response to 27 January 2000 Office Action dated 29 May 2000; Canadian Patent Application No. 2,143,951			
	AS	Office Action dated 11 August 1994; Australian Patent Application No. 47881/93			
	AT	Response to 11 August 1994 Office Action dated 10 August 1995; Australian Patent Application No. 47881/93			
	AU	Office Action dated 04 September 1995; Australian Patent Application No. 47881/93			
	AV	Response to 04 September 1995 Office Action dated 11 December 1995; Australian Patent Application No. 47881/93			
	AW	PCT Written Opinion dated 20 April 1995; PCT Application No. PCT/US93/12652			
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.
¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/488,942
				Filing Date	1/21/2000
				First Named Inventor	Sherer
				Art Unit	2448
				Examiner Name	Strange, Aaron N.
Sheet	6	of	7	Attorney Docket	P190 1010.5
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	AX	Response to PCT Written Opinion dated 20 April 1995; filed 03 May 1995; PCT Application No. PCT/US93/12652			
	AY	Office Action dated 23 November 1995; Australian Patent Application No. 59873/94			
	AZ	Response to 23 November 1995 Office Action dated 27 November 1996; Australian Patent Application No. 59873/94			
	BA	Translation of Office Action dated 01 October 2001; Japanese Patent Application No. 6-504758			
	BB	Applicant's Comments Regarding Office Action dated 01 October 2001; Japanese Patent Application No. 6-504758			
	BC	Office Action dated 11 December 1996; European Patent Application No. 93918428.9			
	BD	Response to Office Action dated 11 December 1996; filed 24 June 1997; European Patent Application No. 93918428.9			
	BE	Office Action dated 05 March 1999; European Patent Application No. 93918428.9			
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.
¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/488,942
				Filing Date	1/21/2000
				First Named Inventor	Sherer
				Art Unit	2448
				Examiner Name	Strange, Aaron N.
Sheet	7	of	7	Attorney Docket	P190 1010.5
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	BF	Response to Office Action dated 05 March 1999; filed 24 January 2000; European Patent Application No. 93918428.9			
	BG	Entry into the regional phase before the EPO as designated or elected Office derived from PCT/US93/07027; European Patent Application No. 93918401.6			
	BH	Pending Claims from European Patent Application No. 93918401.6			
	BI	Office Action dated 23 March 1998; European Patent Application No. 93918401.6			
	BJ	Response to 23 March 1998 Office Action; filed 08 April 1998; European Patent Application No. 93918401.6			
	BK	Office Action dated 30 May 1997; European Patent Application No. 93918401.6			
	BL	Response to 30 May 1997 Office Action; filed 15 January 1998; European Patent Application No. 93918401.6			
	BM	Supplementary European Search Report dated 13 May 1994; European Patent Application No. 93918401.6			
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.